

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-17. (canceled)

18. (currently amended) A computer-readable information recording medium on which there are is recorded:

video information to indicate a main-video;

sub-video information to indicate a sub-video displayable at least partially over the main-video; and

sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element.

19. (currently amended) The computer-readable information recording medium according to claim 18, wherein

the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types.

20. (currently amended) The computer-readable information recording ~~The information record~~ medium according to claim 19, wherein

the sub-video control information further includes sub-frame range information to specify at least a partial area of the sub-video as a sub-frame,

the control information element comprises information for controlling the sub-video information by a unit of the sub-frame, and

the type indication information indicates the presence or absence, or the effectiveness or ineffectiveness of the control information elements by the unit of the sub-frame.

21. (currently amended) The computer-readable information recording ~~The information record~~ medium according to claim 19, wherein the type indication information comprises table information including one bit of information by each of the types.

22. (currently amended) The computer-readable information recording ~~The information record~~-medium according to claim 21, wherein the table information includes extension bit information which is not associated with the types, and a part occupied by the control information elements in the sub-video control information is variable-length.

23. (currently amended) The computer-readable information recording ~~The information record~~-medium according to claim 18, wherein the control information element includes dynamic control information to display the sub-video information dynamically.

24. (currently amended) The computer-readable information recording ~~The information record~~-medium according to claim 18, wherein the control information element includes shading-display control information to selectively shade an opaque part out of the sub-video and display it over the main-video.

25. (currently amended) The computer-readable information recording ~~The information record~~-medium according to claim 18, wherein the control information element includes (i) button information which defines at least a part of the sub-video which is to be displayed over the main-video, as a button video part which functions as a button, and (ii) highlight information which defines how to perform highlight-display control over the button video part.

26. (currently amended) The computer-readable information recording ~~The information record~~-medium according to claim 18, wherein

the main-video information, the sub-video information and the sub-video control information are divided into predetermined packet units and multiplexed, and further streamed relatively into a video stream composed of the divided main-video information, a sub-picture stream composed of the divided sub-video information set and a control information stream composed of the divided sub-video control information.

27. (previously presented) An information record apparatus comprising:

a first record device for recording video information to indicate a main-video;

a second record device for recording sub-video information to indicate a sub-video displayable at least partially over the main-video; and

a third record device for recording sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements.

28. (previously presented) The information record apparatus according to claim 27, wherein

the third record device records the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types.

29. (previously presented) An information record method comprising:

a first record process of recording video information to indicate a main-video;

a second record process of recording sub-video information to indicate a sub-video displayable at least partially over the main-video; and

a third record process of recording sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements.

30. (previously presented) The information record method according to claim 29, wherein

the third record process records the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types.

31. (previously presented) An information reproduction apparatus for reproducing information on an information record medium on which there are recorded: video information to indicate a main-video; sub-video information to indicate a sub-video displayable at least partially over the main-video; and sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element,

said information reproduction apparatus comprising:

a reproduction device for reproducing the video information, the sub-video information and the sub-video control information;

a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information; and

a control device for controlling the display output device to display-control the sub-video information in the method and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information.

32. (previously presented) The information reproduction apparatus according to claim 31, wherein

the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types,

the control device controls the display output device to display-control the sub-video information in the various methods and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the type indication information which is included in the reproduced sub-video control information.



33. (previously presented) An information reproduction method of reproducing information on an information record medium on which there are recorded: video information to indicate a main-video; sub-video information to indicate a sub-video displayable at least partially over the main-video; and sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements,

said information reproduction method comprising:

a reproduction process of reproducing the video information, the sub-video information and the sub-video control information; and

a control process of controlling a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information, to display-control the sub-video information in the method and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information.

34. (previously presented) The information reproduction method according to claim 33, wherein

the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types,

the control process controls the display output device to display-control the sub-video information in the various methods and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the type indication information which is included in the reproduced sub-video control information.

35. (previously presented) An information record reproduction apparatus comprising:

a first record device for recording video information to indicate a main-video;

a second record device for recording sub-video information to indicate a sub-video displayable at least partially over the main-video;

a third record device for recording sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements;

a reproduction device for reproducing the video information, the sub-video information and the sub-video control information;

a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information; and

a control device for controlling the display output device, to display-control the sub-video information in the method and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information.

36. (previously presented) The information record reproduction apparatus according to claim 35, wherein

the third record device records the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set to advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types,

the control device controls the display output device to display-control the sub-video information in the various methods and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the type indication information which is included in the reproduced sub-video control information.

37. (previously presented) An information record reproduction method comprising:

a first record process of recording video information to indicate a main-video;

a second record process of recording sub-video information to indicate a sub-video displayable at least partially over the main-video;

a third record process of recording sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements;

a reproduction process of reproducing the video information, the sub-video information and the sub-video control information; and

a control process of controlling a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information, to display-control the sub-video information in the method and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information.

38. (previously presented) The information record reproduction method according to claim 37, wherein

the third record process records the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types,

the control process controls the display output device to display-control the sub-video information in the various methods and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the type indication information which is included in the reproduced sub-video control information.

39. (currently amended) A computer-readable storage medium storing thereon a computer program product—for a record control, to control a computer disposed at an information record apparatus comprising:

a first record device for recording video information to indicate a main-video;

a second record device for recording sub-video information to indicate a sub-video displayable at least partially over the main-video; and

a third record device for recording sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element,

said computer program ~~product~~ making the computer function as at least a part of the first record device, the second record device and the third record device.

40. (currently amended) A computer-readable storage medium storing thereon a computer program product for a reproduction control to control a computer disposed at an information reproduction apparatus for reproducing information on an information record medium on which there are recorded:

video information to indicate a main-video;

sub-video information to indicate a sub-video displayable at least partially over the main-video; and

sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements, said information reproduction apparatus comprising:

a reproduction device for reproducing the video information, the sub-video information and the sub-video control information;

a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information; and

a control device for controlling the display output device to display-control the sub-video information in the method and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information,

said computer program product making the computer function as at least a part of the reproduction device, the display output device and the control device.

41. (currently amended) A computer-readable storage medium storing thereon a computer program product for a record reproduction control to control a computer disposed at an information record reproduction apparatus comprising:

a first record device for recording video information to indicate a main-video;



a second record device for recording sub-video information to indicate a sub-video displayable at least partially over the main-video;

a third record device for recording sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements;

a reproduction device for reproducing the video information, the sub-video information and the sub-video control information;

a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information; and

a control device for controlling the display output device, to display-control the sub-video information in the methods and display the sub-video information over the main-video, on the basis of the control information element whose presence or effectiveness is shown by the information to indicate presence or absence, or effectiveness or ineffectiveness of the control information element which is included in the reproduced sub-video control information,

said computer program product making the computer function as at least a part of the first record device, the second record device, the third record device, the reproduction device, the display output device and the control device.

42. (currently amended) A computer readable-storage medium encoded with a data structure including a control signal, said data structure having:

video information to indicate a main-video;

sub-video information to indicate a sub-video displayable at least partially over the main-video; and

sub-video control information including (i) a control information element for display control of the sub-video information in a method set in advance and (ii) information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements.

43. (currently amended) The computer readable-storage medium encoded with a data structure including a control signal according to claim 42, wherein

the sub-video control information includes (i) a plurality of types of control information elements for display control of the sub-video information in various methods set in advance and (ii) type indicating information to indicate presence or absence, or effectiveness or ineffectiveness of the control information elements by each of the types.